Amendments to the Claims:

This listing will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently amended): A UV-resistant material which comprises a molecular sieve based host-guest nano-composite which is resistant to ultraviolet radiation, wherein the host-guest nano-composite comprises a host material selected from one or more types of microbore zeolite molecular sieve materials and a guest material selected from one or more of TiO_2, ZnO, CeO_2, and Fe_2O_3 metal oxide nano-clusters .

Claims 2 and 3 (Canceled)

Claim 4 (Previously presented): A method of producing a UV-resistant material that has a molecular sieve based host-guest nano-composite structure which method comprises providing any one or more of $TiCl_3$, $ZnCl_2$, $Zn(NO_3)_2$, $CeCl_3$, $Ce(NO_3)_3$, $FeCl_3$, $Fe(NO_3)_3$, $FeSO_4$ as the initiating material and synthesizing the formation of host-guest nano-composite materials by means of ion exchange, whereby at least one of TiO_2, ZnO, CeO_2, and Fe_2O_3 metal oxide nano-clusters couple to the molecular sieve compound and produce a UV-resistant material.

Claim 5 (Previously presented): The method of claim 4, wherein the ion exchange process comprises following steps:

a) dissolving the initiating material in water,

b) adding a molecular sieve material into the solution of step a),

c) resting or stirring the mixture from step b) for 1~6 hours,

d) filtering a product from the rested mixture,

e) washing, drying, and torrefying the product from step d) for 4-24 hours at 400-600°C.

Claim 6 (Previously presented): The method of claim 4, wherein the ion exchange process comprises following steps:

a) dissolving the initiating material in water,

b) adding low-silicon molecular sieve material into the solution from step a),

c) resting the mixture from step b) for 1hour,

d) filtering a product from the rested mixture,

e) subjecting the product from step d) to washing, drying at 80°C, and torrefying for 12 hours at 500°C.

Claim 7 (Previously presented): The method of UV-resistant material of claim 1, the initiating material comprises butyl titanate and a host-guest nano-composite material having a TiO2 cluster

within molecular sieve material is produced by a hydrolytic reaction.

Claim 8 (Previously presented): The method of claim 7, wherein the hydrolytic reaction comprises following steps:

a) mixing butyl titanate with a high-silicon molecular sieve material in a non-polar solvent under inert gas shielding,

b) refluxing and agitating the mixture from step a) for 4-48 hours at 50 -100°C,

c) washing a product from step b) with an alcohol based solvent,

d) drying the product from step c) at 60-100°C, and

e) torrefying the dried product for 4-24 hours at 400-600°C.

Claim 9 (Previously presented): A cosmetic formulation that comprises the UV-resistant material of claim 1.

Claim 10 (Previously presented) A coating composition that comprises the UV-resistant material of claim 1.

Claim 11 (Previously presented): A rubber composition that comprises the UV-resistant material of claim 1.

Claim 12 (Previously presented): A plastic composition that comprises the UV-resistant material

of claim 1.

Claim 13 (Previously presented): The UV-resistant material of claim 2, wherein sieve material comprises at least one type of sieve material selected from X, Y, A, STI, and ZSM–5 type sieve materials.